

What is claimed is:

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1. A thin speaker, comprising:
- a rigid enclosure having an opening that is smaller in size than the dimensions of said rigid enclosure;
- 5 a semi-rigid lens placed in said opening; and
- a magnetic driver inside of said rigid enclosure and attached to said semi-rigid lens wherein said magnetic driver vibrates said semi-rigid lens to create sound.
- 10 2. The speaker of claim 1, wherein said magnetic driver further comprises a magnetic coil and a diaphragm attached to said semi-rigid lens.
3. The speaker of claim 1, wherein said semi-rigid lens is constructed from a material comprised from the group consisting of plastic, glass, Lexan,
- 15 and Plexiglas.
4. The speaker of claim 1, wherein said semi-rigid lens is transparent.
5. The speaker of claim 1, wherein said rigid enclosure contains a LCD
- 20 module that is viewable through said semi-rigid lens.
6. The speaker of claim 1, wherein said semi-rigid lens is attached to said rigid enclosure.

7. The speaker of claim 1, wherein said semi-rigid lens is attached to a thin semi-rigid surface that is attached to the outside of said rigid enclosure.

8. The speaker of claim 7, wherein said thin semi-rigid surface is larger in size than said semi-rigid lens.

9. The speaker of claim 1, further comprising a mounting bracket for attaching said magnetic driver to said semi-rigid lens.

10. The speaker of claim 9, wherein said mounting bracket is rectangular in shape and has a left end and a right end and said magnetic driver is attached in between said left end and said right end.

11. The speaker of claim 10, wherein said mounting bracket is attached to said semi-rigid lens for increased vibration of said semi-rigid lens for increased sound volume.

12. The speaker of claim 9, wherein said mounting bracket is attached to said semi-rigid lens.

13. The speaker of claim 1, wherein said rigid enclosure is environmentally-sealed.

14. A kiosk that interacts with a user, comprising:  
a housing;

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5 20. The kiosk of claim 14, wherein said semi-rigid lens is attached to said rigid enclosure.

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25. The kiosk of claim 24, wherein said mounting bracket is attached to said semi-rigid lens for increased vibration of said semi-rigid lens for increased sound volume.

26. The kiosk of claim 23, wherein said mounting bracket is attached to said semi-rigid lens.

27. The speaker of claim 14, wherein said rigid enclosure is environmentally-sealed.

28. A fuel dispenser for dispensing fuel into a vehicle, comprising:

- a housing;
- a hose attached to said housing;
- 10 a nozzle attached to said hose;
- a control system in said housing that controls the dispensing of fuel through said hose and said nozzle into the vehicle;
- an input device coupled to said control system for receiving information from the user during the fueling of the vehicle;
- 15 a display coupled to said control system that displays information and generates sound to the customer during the fueling of the vehicle, comprising:
  - a rigid enclosure having an opening that is smaller in size than the dimensions of said rigid enclosure;
  - a LCD module in said enclosure and coupled to said control
  - 20 system;
  - a transparent semi-rigid lens placed in said opening and in front of said LCD module; and
  - a magnetic driver inside of said rigid enclosure and attached to said semi-rigid lens wherein said magnetic driver vibrates said semi-
  - 25 rigid lens to create sound;

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said control system adapted receiver the user's input from said input device and to control information and sound to said display in response thereto.

- 5 29. The fuel dispenser of claim 28, wherein said semi-rigid lens is attached to a thin membrane that is attached to the outside of said rigid enclosure.

30. A method of producing a thin speaker for an enclosure, comprising the steps of:

- 10 cutting out an opening in a rigid enclosure;  
placing a semi-rigid lens in said opening; and  
attaching a magnetic driver on the de of said rigid enclosure to said semi-rigid lens wherein said magnetic driver vibrates said semi-rigid lens to create sound.

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31. The method of claim 30, wherein said attaching comprises:  
attaching said magnetic driver to a mounting bracket and to said semi-rigid lens; and  
attaching said magnetic driver to said semi-rigid lens.

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32. The method of claim 30, further comprising environmentally-sealing said rigid enclosure.

33. The method of claim 30, further comprising attaching said rigid enclosure to a kiosk.
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**Abstract**